

- ◆ Self Contained information gathering data logger
- ◆ Dynamic recording of temperatures and pressures
- ◆ Checks consistency of seals in packaging processes
- ◆ Very compact: <75mm x 37mm x 25mm
- ◆ Shape made to suit product
- ◆ Flexible configuration to suit a wide range of package sizes and shapes

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Developed
for use by
**United
Biscuits**



This very compact Packaging Information Gatherer (PIG) passes through a packaging process continuously gathering data. The electronic battery powered data logger assembly is housed in a custom shaped foam sleeve to emulate the shape of the items being packaged. Transducers mounted within the assembly monitor relevant process parameters for subsequent downloading to a PC for analysis. Parameters can be selected to suit the specific application, typically temperature and pressure (force) are measured. Simply inserting the "PIG" on a packaging line in place of the normal product(s) will allow the operator or development team to gather up-to-date information as the product is packaged.

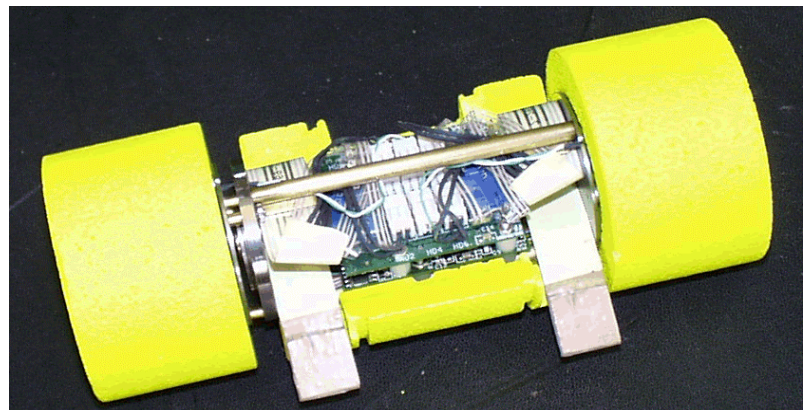


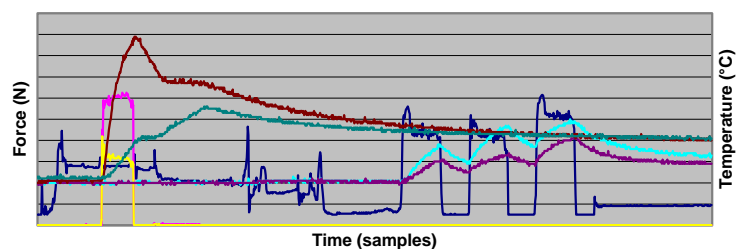
Photo showing configuration for McVitie "roll and seal" application

The standard data logging core of the module is flexible to suit interfacing to a wide range of transducers arranged to suit the specific application. Relatively low cost custom elements can be quickly added to the module to suit specific applications. Software packages can be efficiently adapted to suit a wide range of applications

Specification example: (Many other configurations are possible)

Temperature	Four measurement points Range: 10°C to 140°C ± 1°
Force	Four measurement points (aligned close to temperature monitoring points) Range: 0 to 50N ± 1%
Data storage	Measurements taken every 10ms Total capacity 50,000 measurements Run time >60s for eight channels

Biscuits Roll Wrap Machine with film present



Data from packaging process at United Biscuits